

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01409

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. <sup>7</sup>: C10L 9/02, 9/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC C10L 9/02, 9/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI IPC + KEYWORDS (mineral, deash, acid, alkaline, leach, wash, alkali)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4936045 A (WAUGH et al.) 26 June 1990 See entire document	46-51
X	US4516980 A (WHEELLOCK) 14 May 1985 See entire document	46
A	AU 606607 (76863/87) B (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION) 14 February 1991 See entire document	

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 8 December 2003	Date of mailing of the international search report 15 DEC 2003
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized officer  R.P. ALLEN Telephone No : (02) 6283 2134

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01409

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 89/01963 A (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION) 9 March 1989</p> <p>See entire document</p>	36-37

### Information on patent family members

**PCT/AU03/01409**

Patent Document Cited in Search Report				Patent Family Member			
US	4936045	AU	72311/87	DK	612887	EP	0302864
		FI	884170	NO	874831	NZ	219741
		WO	8705621				
US	4516980						
AU	606607	AU	76863/87				
WO	8901963	AU	23803/88	DK	54590	EP	0377616
		NO	901006	NZ	226023	NZ	237406
		US	5192338	ZA	8806518		
END OF ANNEX							